

ABSTRACT

Novel germplasm, breeding stock, genetic markers and methods for introducing resistance to late blight and other diseases into cultivated potato plants are disclosed. The germplasm is derived from a segment of the *Solanum bulbocastanum* genome that contains one or more genes conferring resistance to late blight. Also disclosed are *S. bulbocastanum* RAPD fragment markers that co-segregate with the disease resistance gene, as well as chromosome 8 RFLP markers that are tightly linked to the resistance gene(s). These markers are used to monitor passage of the disease resistance trait in breeding crosses.